The CMMI Risk Management Process Area — Process Implementation / Process Assessment

Ray Williams, SEI

What's this about?

Originally, this was to be a pilot tutorial for the CMMI Risk Management (RSKM) Process Area (PA) that would address:

- Review of Risk Management PA
    - Specific goals and practices
    - Implied ordering and flow
    - Generic goals and practices

- Issues in process implementation
    - Question/answer/sharing session on Risk Management process implementation

- Issues in process assessment (appraisal or evaluation)
    - Question/answer/sharing session on Risk Management process assessment

Who is Ray Williams?

- In the SEI since 1991
  - brought directly into SEI's Risk Program (nuclear & steel industry project management background)
  - remained with Risk Program to its end (circa 1997-8)
  - absorbed into the Software Engineering Process Management (SEPM) initiative, Process Improvement (PI) group

- Steward for SEI Risk Program legacy products/services
  - Software Risk Evaluations (SREs)
  - Continuous Risk Management (CRM)
  - Team Risk Management (TRM)

- CMMI instructor candidate, PSP trained

- Charged with developing RSKM support materials

What Does He Mean to Do?

1) Lead the development of CMMI enrichment products for Project Management PAs, beginning with risk management:

  - handbooks/guidebooks for process improvement and process appraisal targeted on the specific PAs

  - tutorials for systems engineering and SEPG communities conference audiences

2) Enrich the legacy SEI Risk Management products & services to fully support CMMI and other relevant process improvement models

What are the special challenges?

It appears this will be the first PA to be provided with its own guidebook—prototype for other CMMI PAs (?)

Risk Management is an area *particularly* full of competing world views, experts, consultants—outside roadblocks are easy to create

Risk Management was voted down when proposed for addition to the SW-CMM—inside roadblocks are easy to create

What Makes RSKM "Special"?

- Programs with no interest (yet) in CMMI want (or *are required*) to implement risk management

    - RSKM can be used to directly identify organizational weaknesses (risks) that can be mitigated by broader implementing other CMMI PAs (the "Spearhead" approach)

- SW-CMM-rated organizations see the RSKM PA as completely new, potentially with lots of new "bureaucracy"

How is RSKM Special to You?

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Products—Our Ideas

Guidebook

- Modeled on SA-CMM's Acquisition Risk Management Guidebook (CMU/SEI-99-HB-001)
- Expand with examples of "easy" and "small program" RSKM-compliant approaches
- Expand further with special guidance on assessment considerations

Three-hour tutorial

- Target audiences: INCOSE, PMI
- Help give insight on
  - how to bring existing risk management program to CMMI CL3 (Continuous Representation)
  - how to use RSKM to guide improvement planning

Products—Your Ideas

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Who Would Work on This?

Ray Williams (lead)

Julie Walker -- SAIC (20% Remote Affiliate for 6 mo.)

Other SEI PI group members, as available

Other Resident or Remote Affiliates (no one is in the pipeline today!)

What Do We Need?

Resources

Sponsorship (opening doors, encouraging)

Good relations/communications with other CMMI PA product developers

Collaborations

Customer work that will allow us to develop RSKM-support products while doing SEI Risk Management interventions (SRE/CRM/TRM)

Contact Information

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Risk-specific SEI web portal:

   http://www.sei.cmu.edu/organization/programs/sepm/risk/

or select "Risk management" on the SEI's front-page pull-down menu

   http://www.sei.cmu.edu/